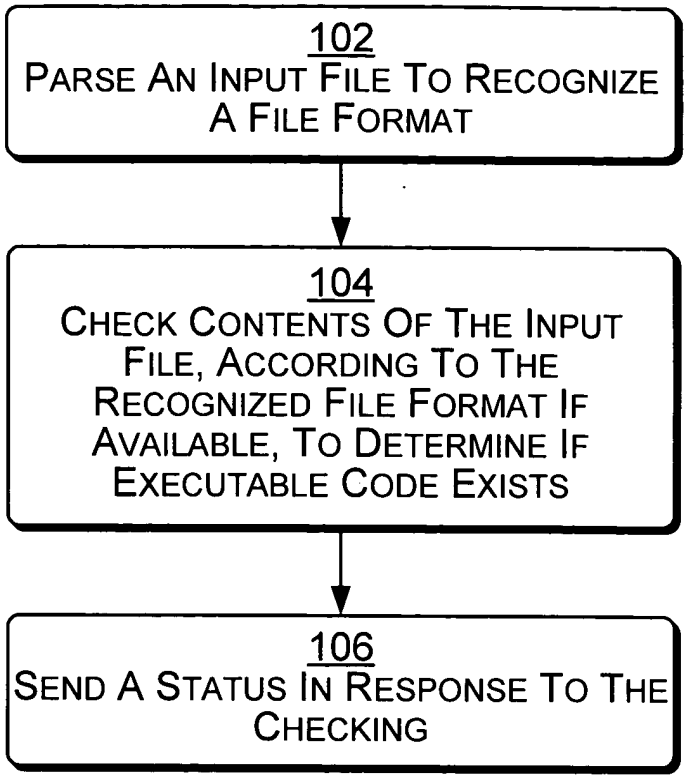
102
PARSE AN INPUT FILE TO RECOGNIZE A FILE FORMAT
104
CHECK CONTENTS OF THE INPUT FILE, ACCORDING TO THE RECOGNIZED FILE FORMAT IF AVAILABLE, TO DETERMINE IF EXECUTABLE CODE EXISTS
106
SEND A STATUS IN RESPONSE TO THE CHECKING

Fig. 1

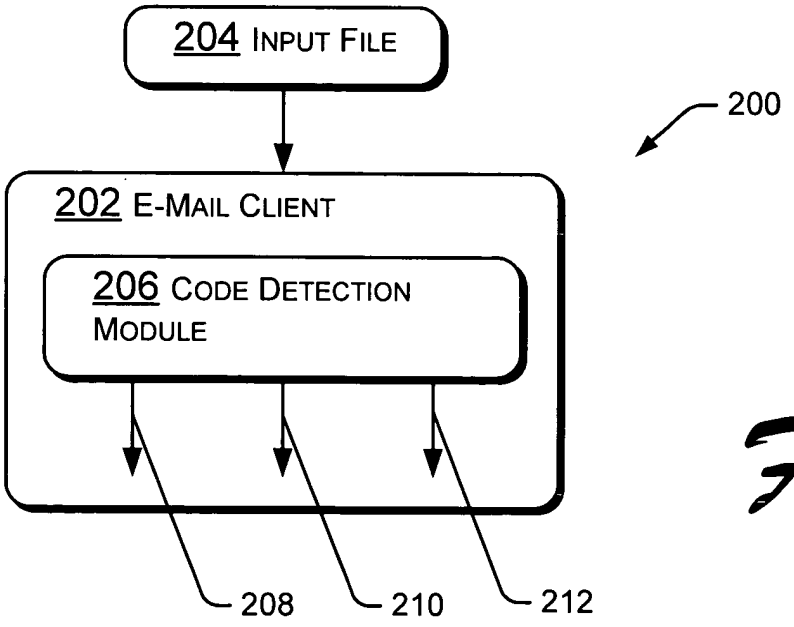
204 INPUT FILE
200
202 E-MAIL CLIENT
206 CODE DETECTION MODULE
208
210
212

Fig. 2

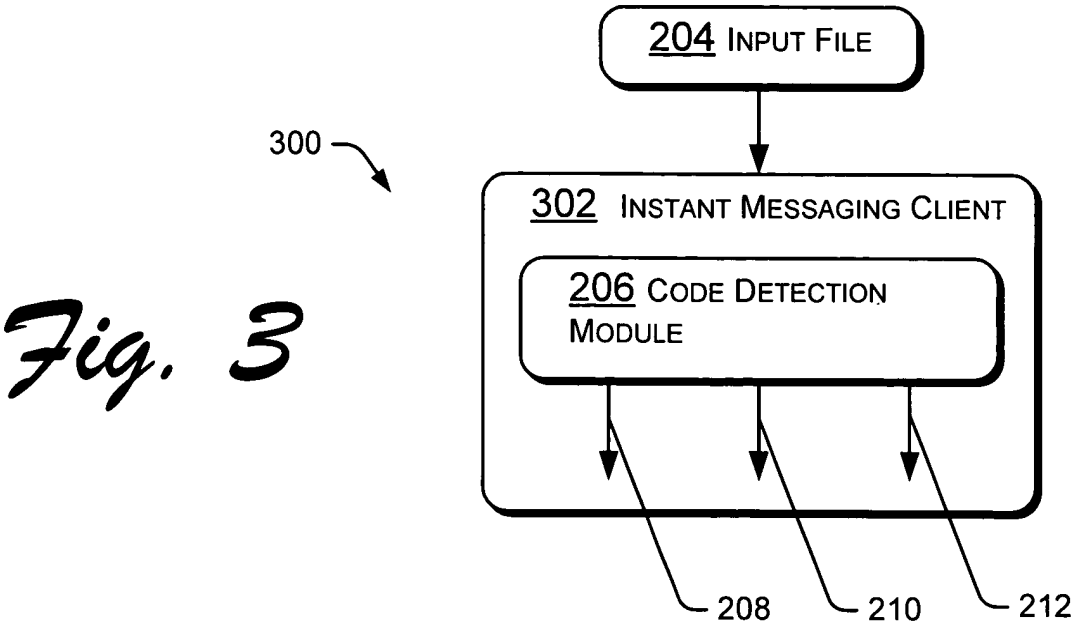
204 INPUT FILE
300
302 INSTANT MESSAGING CLIENT
206 CODE DETECTION MODULE
208
210
212

Fig. 3

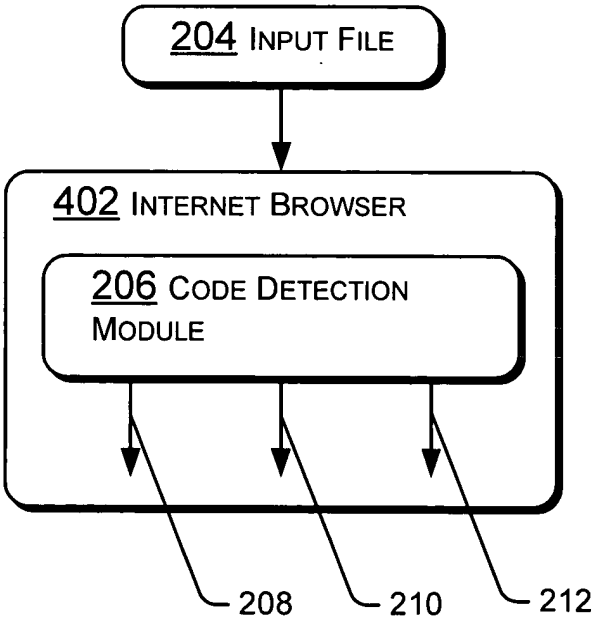
204 INPUT FILE
402 INTERNET BROWSER
206 CODE DETECTION MODULE
400
208
210
212

Fig. 4

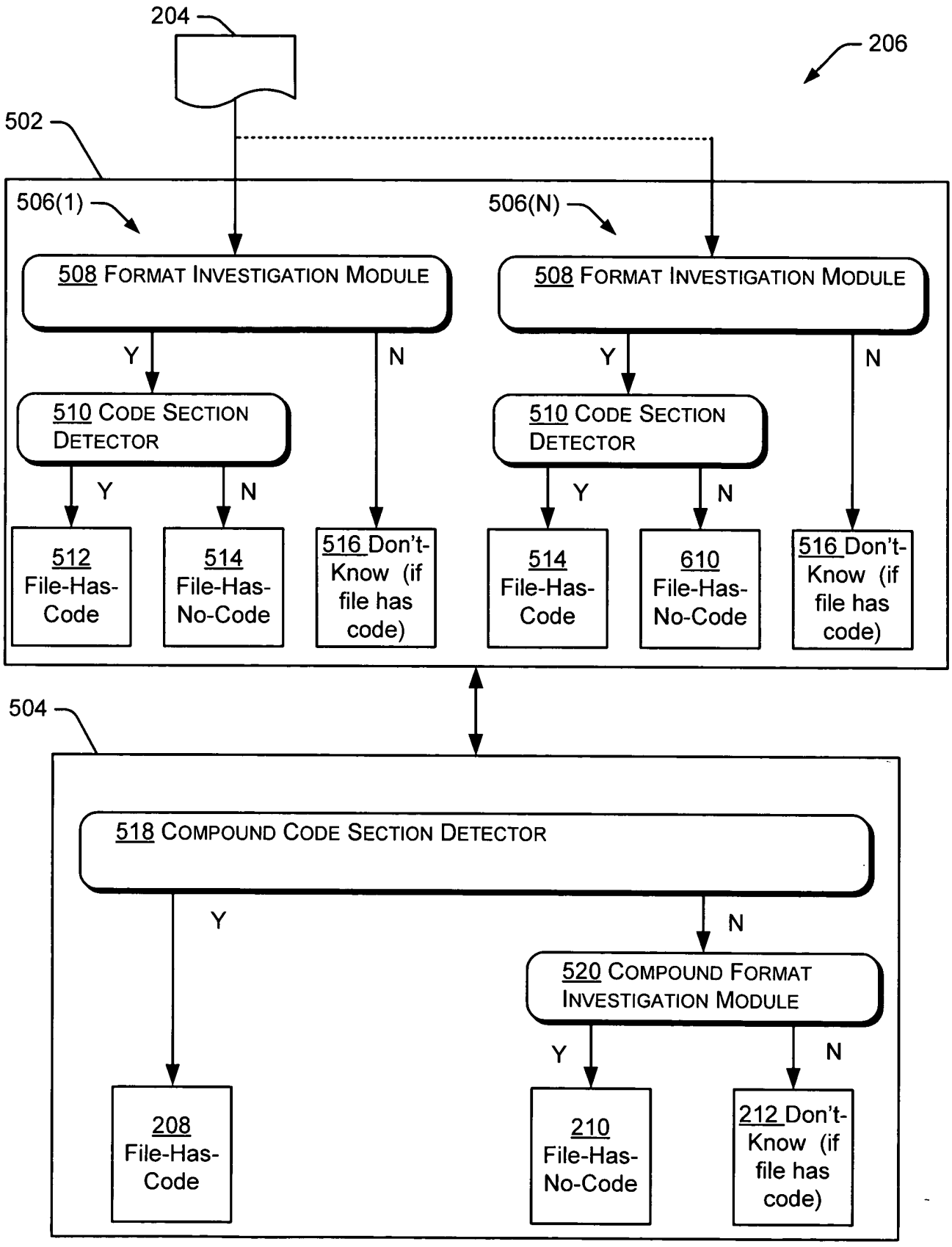
204
206
502
506(1)
506(N)
508 FORMAT INVESTIGATION MODULE
508 FORMAT INVESTIGATION MODULE
Y
N
Y
N
510 CODE SECTION DETECTOR
510 CODE SECTION DETECTOR
Y
N
Y
N
512 File-Has-Code
514 File-Has-No-Code
516 Don't-Know (if file has code)
514 File-Has-Code
610 File-Has-No-Code
516 Don't-Know (if file has code)
504
518 COMPOUND CODE SECTION DETECTOR
Y
N
520 COMPOUND FORMAT INVESTIGATION MODULE
Y
N
208 File-Has-Code
210 File-Has-No-Code
212 Don't-Know (if file has code)

Fig. 5

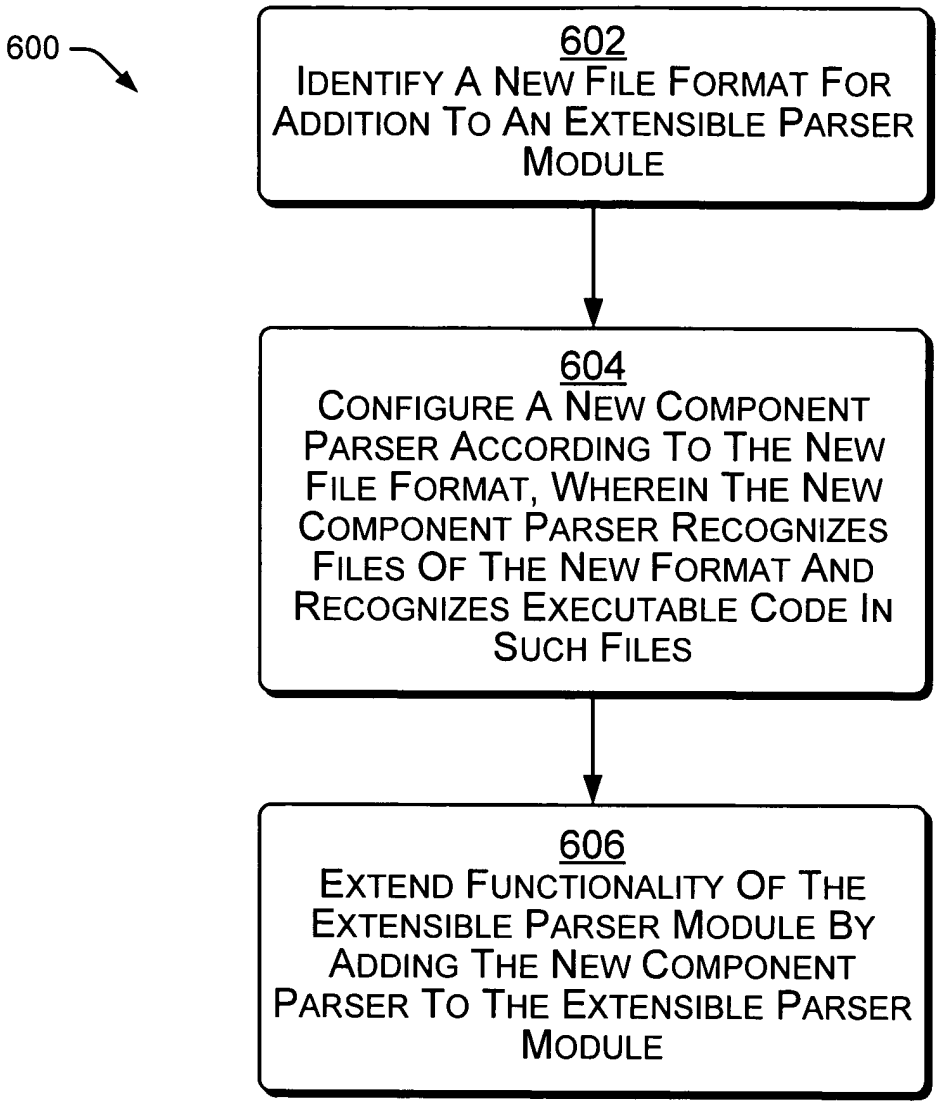
600
602
IDENTIFY A NEW FILE FORMAT FOR ADDITION TO AN EXTENSIBLE PARSER MODULE
604
CONFIGURE A NEW COMPONENT PARSER ACCORDING TO THE NEW FILE FORMAT, WHEREIN THE NEW COMPONENT PARSER RECOGNIZES FILES OF THE NEW FORMAT AND RECOGNIZES EXECUTABLE CODE IN SUCH FILES
606
EXTEND FUNCTIONALITY OF THE EXTENSIBLE PARSER MODULE BY ADDING THE NEW COMPONENT PARSER TO THE EXTENSIBLE PARSER MODULE

Fig. 6

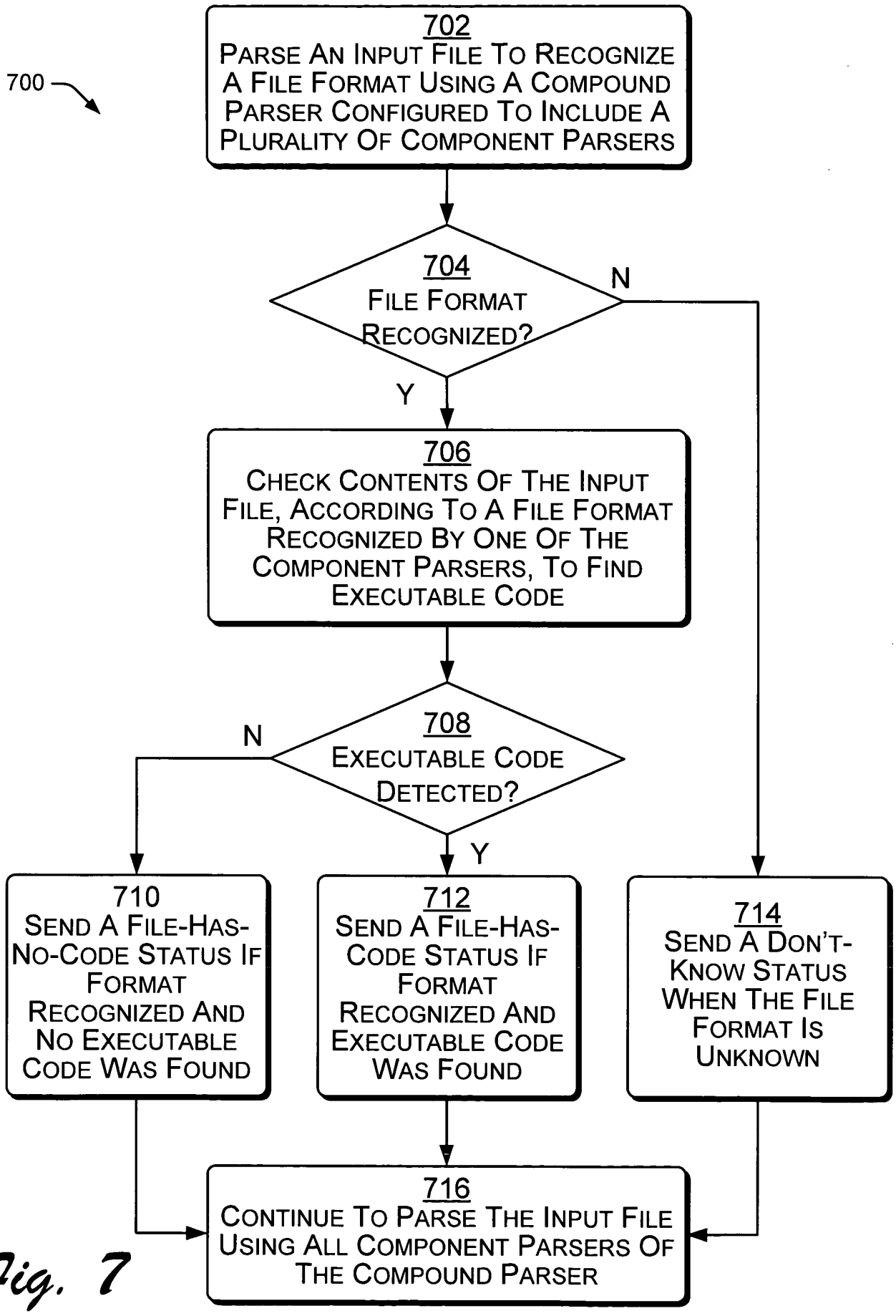
700
702
PARSE AN INPUT FILE TO RECOGNIZE A FILE FORMAT USING A COMPOUND PARSER CONFIGURED TO INCLUDE A PLURALITY OF COMPONENT PARSERS
704
FILE FORMAT RECOGNIZED?
N
Y
706
CHECK CONTENTS OF THE INPUT FILE, ACCORDING TO A FILE FORMAT RECOGNIZED BY ONE OF THE COMPONENT PARSERS, TO FIND EXECUTABLE CODE
708
EXECUTABLE CODE DETECTED?
N
Y
710
SEND A FILE-HAS-NO-CODE STATUS IF FORMAT RECOGNIZED AND NO EXECUTABLE CODE WAS FOUND
712
SEND A FILE-HAS-CODE STATUS IF FORMAT RECOGNIZED AND EXECUTABLE CODE WAS FOUND
714
SEND A DON'T-KNOW STATUS WHEN THE FILE FORMAT IS UNKNOWN
716
CONTINUE TO PARSE THE INPUT FILE USING ALL COMPONENT PARSERS OF THE COMPOUND PARSER

Fig. 7

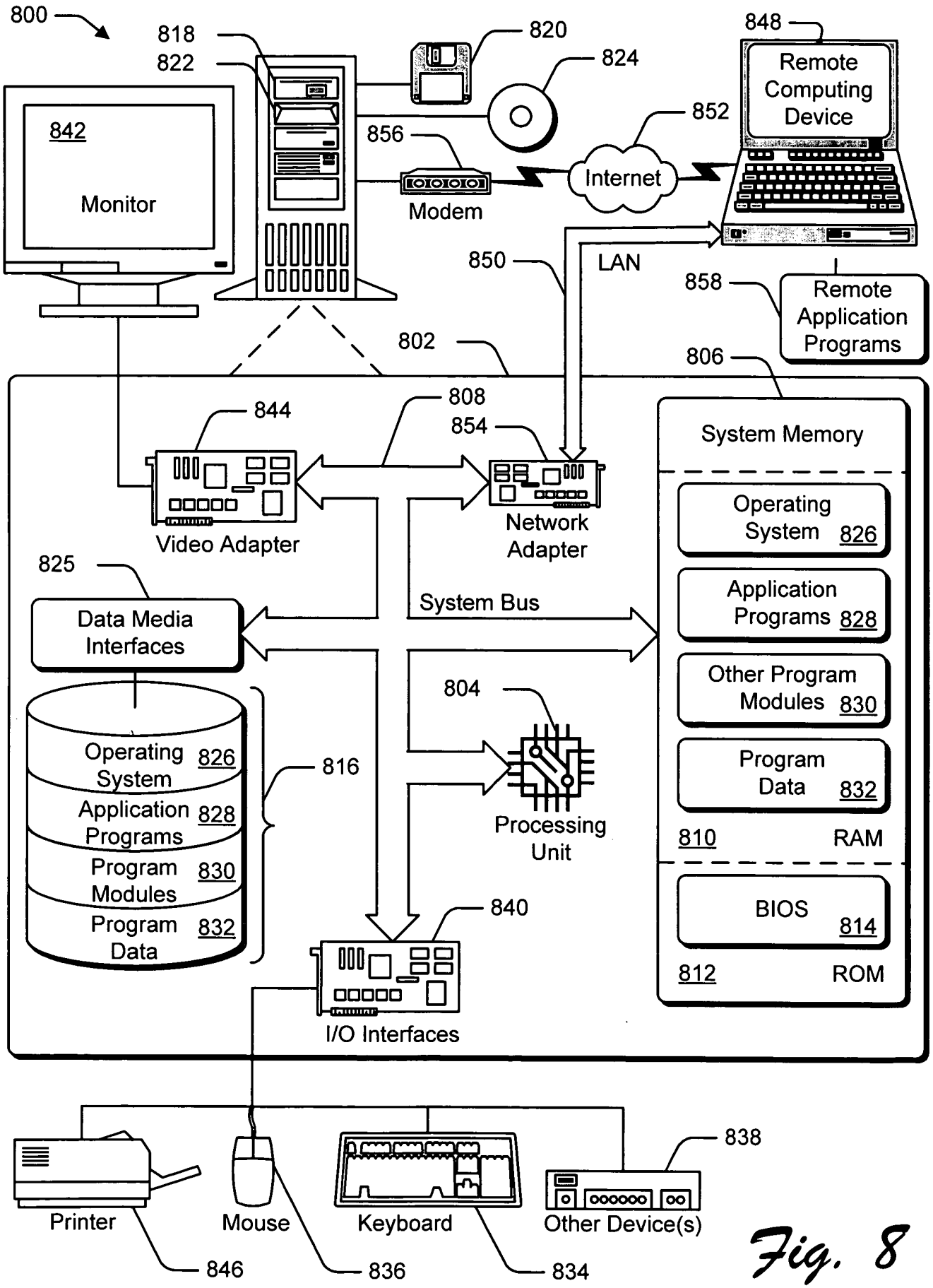
800
818
822
820
824
848
Remote Computing Device
852
842
Monitor
856
Modem
Internet
850
LAN
858
Remote Application Programs
802
806
808
844
854
System Memory
Video Adapter
Network Adapter
825
Data Media Interfaces
System Bus
Operating System 826
Application Programs 828
Other Program Modules 830
Program Data 832
804
816
Operating System 826
Application Programs 828
Program Modules 830
Program Data 832
Processing Unit
810
RAM
840
BIOS 814
812
ROM
I/O Interfaces
838
Printer
Mouse
Keyboard
Other Device(s)
846
836
834

Fig. 8